

WEST Search History

DATE: Sunday, August 24, 2003

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ</i>			
L18	L15 and l11	3	L18
L17	L16 and l11	5	L17
L16	L13 and l10	344	L16
L15	L14 and l10	252	L15
L14	(((514/\$).ccls.))	126916	L14
L13	(((424/\$).ccls.))	85282	L13
L12	L11 and l10	8	L12
L11	levofloxacin	279	L11
L10	taste near20 masked	1011	L10
L9	taste adj masked	376	L9
L8	L7 and sucralose	10	L8
L7	L6 and antibiotic	29	L7
L6	l1 and l3 and l4	78	L6
L5	l1 and l3 and l4L4	0	L5
L4	artificial sweetener	3135	L4
L3	pharmaceutical	281183	L3
L2	liquid	2201453	L2
L1	liquid composition	29027	L1

END OF SEARCH HISTORY

WEST



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L13: Entry 7 of 8

File: JPAB

Aug 4, 1998

PUB-NO: JP410203985A

DOCUMENT-IDENTIFIER: JP 10203985 A

TITLE: PRODUCTION OF TASTE-MASKING AGENT OF ANTIBACTERIAL QUINOLONE DERIVATIVE

PUBN-DATE: August 4, 1998

INVENTOR-INFORMATION:

NAME

COUNTRY

AHRENS, GERHARD

MENTRUP, EDGAR

MAAS, JOCHEN

RADAU, MANFRED

INT-CL (IPC): A61 K 31/47; A61 K 9/20; A61 K 47/12

ABSTRACT:

PROBLEM TO BE SOLVED: To obtain an agent for oral administration having masked bitter taste by mixing a quinolone derivative having antibacterial activity with a higher fatty acid and heating the mixture.

SOLUTION: This agent is produced by mixing a quinolone derivative with at least one higher fatty acid, optionally adding an additive, heating the mixture at 30-140°C, preferably at 50-85°C and crushing to powder or granule after cooling. The weight ratio of the quinolone derivative to the fatty acid is 1:(0.3-4). The quinolone derivative is e.g. levofloxacin or ofloxacin and the fatty acid is a ≥ 10 C acid such as stearic acid or palmitic acid. A drug preparation necessary to eliminate the taste of an active compound such as soluble tablet, chewable agent and sachet is produced and the active antibacterial quinolone derivative is quickly released by this process. The agent is useful for the treatment of bacteriosis.

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WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 8 of 8 returned.**☐ 1. Document ID: US 20030064107 A1

L13: Entry 1 of 8

File: PGPB

Apr 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030064107

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030064107 A1

TITLE: Taste masked pharmaceutical liquid formulations

PUBLICATION-DATE: April 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Yu, Danny	Somerville	NJ	US	
Roche, Edward	Paoli	PA	US	

US-CL-CURRENT: 424/494; 424/184.1

ABSTRACT:

A liquid composition for oral administration comprising a pharmaceutically active medicament coated with a taste masking effective amount of a polymer blend of (a) dimethylaminoethyl methacrylate and neutral methacrylic acid ester (MM/MAE) and (b) a cellulose ester, in an aqueous vehicle, wherein the polymer weight ratio of the cellulose ester to the MM/MAE is about 40:60 to about 90:10, preferably about 60:40. The liquid composition utilizes a "reverse enteric coating" which is soluble in the acid pH's of the stomach, generally about 1.0 to 4.0, but relatively insoluble at the non-acidic pH's of the mouth. The coatings provide for rapid release and absorption of the drug, which is generally desirable in the case of liquid dosage forms.

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[HWAC](#) [Draw Desc](#) [Image](#)☐ 2. Document ID: US 20030032600 A1

L13: Entry 2 of 8

File: PGPB

Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030032600

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030032600 A1

TITLE: Taste masked liquid pharmaceutical compositions

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ulrich, Stephen A.	Cherry Hill	NJ	US	
Zimm, Karen R.	Stockton	NJ	US	
Francois, Marc Karel Jozef	Kapellen		BE	
Dries, Willy Maria Albert Carlo	Merksplas		BE	

US-CL-CURRENT: 514/19; 514/192, 514/200, 514/253.08, 514/29, 514/300, 514/312

ABSTRACT:

This invention is directed to a taste masked liquid pharmaceutical composition comprising a pharmaceutically active agent and a taste masking composition. In particular, the taste masking composition comprises a taste masking effective amount of an artificial sweetener.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FWMC	Draw Desc	Image
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☐ 3. Document ID: US 20020197327 A1

L13: Entry 3 of 8

File: PGPB

Dec 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020197327

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020197327 A1

TITLE: Taste masked pharmaceutical compositions

PUBLICATION-DATE: December 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ulrich, Stephen A.	Cherry Hill	NJ	US	
Zimm, Karen R.	Stockton	NJ	US	

US-CL-CURRENT: 424/497; 514/253.04, 514/253.08

ABSTRACT:

A taste masked pharmaceutical composition comprising a microcapsule, wherein the microcapsule comprises a pharmaceutically active agent core coated with a taste masking effective amount of a water-insoluble enteric coating, wherein the coating comprises a weakly acidic methacrylic acid-ethyl acrylate copolymer.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FWMC	Draw Desc	Image
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☐ 4. Document ID: US 6586012 B2

L13: Entry 4 of 8

File: USPT

Jul 1, 2003

US-PAT-NO: 6586012

DOCUMENT-IDENTIFIER: US 6586012 B2

TITLE: Taste masked pharmaceutical liquid formulations

DATE-ISSUED: July 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yu, Danny	Somerville	NJ		
Roche, Edward	Paoli	PA		

US-CL-CURRENT: 424/489; 424/494, 424/497

ABSTRACT:

A liquid composition for oral administration comprising a pharmaceutically active medicament coated with a taste masking effective amount of a polymer blend of (a) dimethylaminoethyl methacrylate and neutral methacrylic acid ester (MM/MAE) and (b) a cellulose ester, in an aqueous vehicle, wherein the polymer weight ratio of the cellulose ester to the MM/MAE is about 40:60 to about 90:10, preferably about 60:40. The liquid composition utilizes a "reverse enteric coating" which is soluble in the acid pH's of the stomach, generally about 1.0 to 4.0, but relatively insoluble at the non-acidic pH's of the mouth. The coatings provide for rapid release and absorption of the drug, which is generally desirable in the case of liquid dosage forms.

15 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWIC Draw Desc Image

☐ 5. Document ID: US 6482823 B1

L13: Entry 5 of 8

File: USPT

Nov 19, 2002

US-PAT-NO: 6482823
DOCUMENT-IDENTIFIER: US 6482823 B1

TITLE: Taste masked pharmaceutical liquid formulations

DATE-ISSUED: November 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yu, Danny	Somerville	NJ		
Roche, Edward	Paoli	PA		

US-CL-CURRENT: 514/228.8; 424/489, 424/494, 424/497, 514/230.2

ABSTRACT:

A liquid composition for oral administration comprising a pharmaceutically active medicament coated with a taste masking effective amount of a polymer blend of (a) dimethylaminoethyl methacrylate and neutral methacrylic acid ester (MM/MAE) and (b) a cellulose ester, in an aqueous vehicle, wherein the polymer weight ratio of the cellulose ester to the MM/MAE is about 40:60 to about 90:10, preferably about 60:40. The liquid composition utilizes a "reverse enteric coating" which is soluble in the acid pH's of the stomach, generally about 1.0 to 4.0, but relatively insoluble at the non-acidic pH's of the mouth. The coatings provide for rapid release and absorption of the drug, which is generally desirable in the case of liquid dosage forms.

15 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWIC Draw Desc Image

☐ 6. Document ID: US 6217910 B1

L13: Entry 6 of 8

File: USPT

Apr 17, 2001

US-PAT-NO: 6217910
DOCUMENT-IDENTIFIER: US 6217910 B1

TITLE: Granular preparation and producing process thereof

DATE-ISSUED: April 17, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakagami; Hiroaki	Tokyo			JP
Yamao; Tadanao	Tokyo			JP
Funada; Ario	Shizuoka			JP

US-CL-CURRENT: 424/497; 424/489, 424/490

ABSTRACT:

A granular preparation comprising particles prepared by melt granulation of a powdered low-melting oily substance and a powdered medicine, the particles being coated with a finely powdered hydrophobic and oil-absorbing high polymeric compound (if desired, together with a finely powdered diluent) by melt coating, and a producing process thereof. The preparation does not cake even under heat and humid conditions and is effective for masking bitterness of a medicine.

14 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FWOC	Draw Desc	Image
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☐ 7. Document ID: JP 10203985 A

L13: Entry 7 of 8

File: JPAB

Aug 4, 1998

PUB-NO: JP410203985A

DOCUMENT-IDENTIFIER: JP 10203985 A

TITLE: PRODUCTION OF TASTE-MASKING AGENT OF ANTIBACTERIAL QUINOLONE DERIVATIVE

PUBN-DATE: August 4, 1998

INVENTOR-INFORMATION:

NAME	COUNTRY
AHRENS, GERHARD	
MENTRUP, EDGAR	
MAAS, JOCHEN	
RADAU, MANFRED	

INT-CL (IPC): A61 K 31/47; A61 K 9/20; A61 K 47/12

ABSTRACT:

PROBLEM TO BE SOLVED: To obtain an agent for oral administration having masked bitter taste by mixing a quinolone derivative having antibacterial activity with a higher fatty acid and heating the mixture.

SOLUTION: This agent is produced by mixing a quinolone derivative with at least one higher fatty acid, optionally adding an additive, heating the mixture at 30-140°C, preferably at 50-85°C and crushing to powder or granule after cooling. The weight ratio of the quinolone derivative to the fatty acid is 1:(0.3-4). The quinolone derivative is e.g. levofloxacin or ofloxacin and the fatty acid is a >10C acid such as stearic acid or palmitic acid. A drug preparation necessary to eliminate the taste of an active compound such as soluble tablet, chewable agent and sachet is produced and the active antibacterial quinolone derivative is quickly released by this process. The agent is useful for the treatment of bacteriosis.

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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8. Document ID: US 6586012 B2 WO 200103698 A1 AU 200058802 A BR 200012326 A NO 200200086 A EP 1194153 A1 CN 1360504 A KR 2002029668 A KR 2002031382 A US 6482823 B1 CZ 200200067 A3 HU 200201765 A2 SK 200200032 A3 JP 2003504335 W US 20030064107 A1

L13: Entry 8 of 8

File: DWPI

Jul 1, 2003

DERWENT-ACC-NO: 2001-147134

DERWENT-WEEK: 200345

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TITLE: Taste-masked oral composition, used to delivery unpleasantly tasting drugs, is a suspension of active ingredient particles having reverse enteric coating of polymer blend

INVENTOR: ROCHE, E; YU, D

PRIORITY-DATA: 1999US-143019P (July 9, 1999), 2000US-0598157 (June 21, 2000), 2002US-0253683 (September 24, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6586012 B2	July 1, 2003		000	A61K009/14
WO 200103698 A1	January 18, 2001	E	018	A61K031/5383
AU 200058802 A	January 30, 2001		000	A61K031/5383
BR 200012326 A	March 12, 2002		000	A61K031/5383
NO 200200086 A	March 5, 2002		000	A61K000/00
EP 1194153 A1	April 10, 2002	E	000	A61K031/5383
CN 1360504 A	July 24, 2002		000	A61K031/5383
KR 2002029668 A	April 19, 2002		000	A61K009/08
KR 2002031382 A	May 1, 2002		000	A61K009/50
US 6482823 B1	November 19, 2002		000	A61K031/535
CZ 200200067 A3	December 11, 2002		000	A61K031/5383
HU 200201765 A2	November 28, 2002		000	A61K031/5383
SK 200200032 A3	February 4, 2003		000	A61K031/5383
JP 2003504335 W	February 4, 2003		021	A61K009/10
US 20030064107 A1	April 3, 2003		000	A61K009/14

20030064107 A1 INT-CL (IPC): A61 K 0/00; A61 K 9/00; A61 K 9/08; A61 K 9/10; A61 K 9/14; A61 K 9/16; A61 K 9/50; A61 K 31/535; A61 K 31/5383; A61 K 39/00; A61 K 47/04; A61 K 47/18; A61 K 47/26; A61 K 47/32; A61 K 47/38

ABSTRACTED-PUB-NO: WO 200103698A

BASIC-ABSTRACT:

NOVELTY - Oral liquid composition (A) comprising active agent (I) particles in a liquid suspension of pH over 6, is new. Each particle has a core of (I), and optionally inactive adjuvants, and is coated with a taste-masking layer of a polymer blend of dimethylaminoethyl methacrylate and neutral methacrylic acid (MM/MAE) and cellulose ester (CE). The weight ratio CE:MM/MAE is 40:60 to 90:10.

USE - (A) is used for administration of drugs having an unpleasant taste, particularly the quinolone antibiotic levofloxacin (claimed).

ADVANTAGE - Masking the taste of (I) should improve patient compliance. The polymeric coating is a 'reverse enteric coating', i.e. it is dissolved in the stomach but not in the mouth, providing rapid release and absorption of (I). The coating is stable during storage in suspension, at least over the period of treatment, typically 7-14 days.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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Term	Documents
(12 AND 11).USPT,PGPB,JPAB,EPAB,DWPI.	8
(L12 AND L11).USPT,PGPB,JPAB,EPAB,DWPI.	8

Display Format:[REV](#)[Change Format](#)[Previous Page](#)[Next Page](#)

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 10 of 10 returned.**☐ 1. Document ID: US 20030118654 A1

L8: Entry 1 of 10

File: PGPB

Jun 26, 2003

PGPUB-DOCUMENT-NUMBER: 20030118654
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030118654 A1

TITLE: Taste masked aqueous liquid pharmaceutical composition

PUBLICATION-DATE: June 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
B. Santos, Joyce Bedelia	Mandaluyong City		PH	
M. Santos, Rita Josefina	Quezon City		PH	
Dee, Kennie U.	Quezon City		PH	

US-CL-CURRENT: 424/486, 514/192, 514/200, 514/255.04, 514/263.34, 514/282, 514/290,
514/629, 514/649

ABSTRACT:

A substantially taste masked liquid pharmaceutical composition containing a pharmaceutically effective amount of an unpleasant tasting drug dissolved or dispersed in an aqueous excipient base, said excipient base comprising polyvinyl pyrrolidone and/or copolyvidone, and high molecular weight polyethylene glycol.

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[RIMC](#) [Draw Data](#) [Image](#)☐ 2. Document ID: US 20030069170 A1

L8: Entry 2 of 10

File: PGPB

Apr 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030069170
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030069170 A1

TITLE: Pharmaceutical compositions of drug-oligomer conjugates and methods of treating diseases therewith

PUBLICATION-DATE: April 10, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Soltero, Richard	Holly Springs	NC	US	
Ekwuribe, Nnochiri N.	Cary	NC	US	
Opawale, Foyeke	Raleigh	NC	US	
Rehlander, Bruce	Chapel Hill	NC	US	
Hickey, Anthony	Chapel Hill	NC	US	
Li Li, Bovet	Chapel Hill	NC	US	

US-CL-CURRENT: 514/2; 514/12, 514/171, 514/560

ABSTRACT:

Pharmaceutical compositions that include a drug-oligomer conjugate, a fatty acid component, and a bile salt component are described. The drug is covalently coupled to an oligomeric moiety. The fatty acid component and the bile salt component are present in a weight-to-weight ratio of between 1:5 and 5:1. Methods of treating diseases in a subject in need of such treatment using such pharmaceutical compositions are also provided, as are methods of providing such pharmaceutical compositions.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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WABC	Draw Desc	Image
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☐ 3. Document ID: US 20030032600 A1

L8: Entry 3 of 10

File: PGPB

Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030032600

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030032600 A1

TITLE: Taste masked liquid pharmaceutical compositions

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ulrich, Stephen A.	Cherry Hill	NJ	US	
Zimm, Karen R.	Stockton	NJ	US	
Francois, Marc Karel Jozef	Kapellen		BE	
Dries, Willy Maria Albert Carlo	Merksplas		BE	

US-CL-CURRENT: 514/19; 514/192, 514/200, 514/253.08, 514/29, 514/300, 514/312

ABSTRACT:

This invention is directed to a taste masked liquid pharmaceutical composition comprising a pharmaceutically active agent and a taste masking composition. In particular, the taste masking composition comprises a taste masking effective amount of an artificial sweetener.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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WABC	Draw Desc	Image
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☐ 4. Document ID: US 20020197327 A1

L8: Entry 4 of 10

File: PGPB

Dec 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020197327

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020197327 A1

TITLE: Taste masked pharmaceutical compositions

PUBLICATION-DATE: December 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ulrich, Stephen A.	Cherry Hill	NJ	US	
Zimm, Karen R.	Stockton	NJ	US	

US-CL-CURRENT: 424/497; 514/253.04, 514/253.08

ABSTRACT:

A taste masked pharmaceutical composition comprising a microcapsule, wherein the microcapsule comprises a pharmaceutically active agent core coated with a taste masking effective amount of a water-insoluble enteric coating, wherein the coating comprises a weakly acidic methacrylic acid-ethyl acrylate copolymer.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 5. Document ID: US 20020076421 A1

L8: Entry 5 of 10

File: PGPB

Jun 20, 2002

PGPUB-DOCUMENT-NUMBER: 20020076421

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020076421 A1

TITLE: Oral liquid mucoadhesive compositions

PUBLICATION-DATE: June 20, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dobrozsi, Douglas Joseph	Loveland	OH	US	

US-CL-CURRENT: 424/400

ABSTRACT:

The present invention relates to a per oral, oral, or intranasal pharmaceutical mucoretentive, aqueous liquid composition comprising from about 2% to about 50%, by weight of the composition, of colloidal particles of silica, titanium dioxide, clay, and mixtures thereof and a safe and effective amount of a pharmaceutical active selected from the group consisting of analgesics, decongestants, expectorants, antitussives, antihistamines, sensory agents, gastrointestinal agents, and mixtures thereof; wherein the composition has a sedimentation volume ratio of greater than about 0.90 and wherein the triggered viscosity ratio of the composition is at least about 1.2. The present invention further relates to a method of coating the alimentary canal and nasal mucosa, in particular to a method of preventing or treating symptoms of upper respiratory tract infections or upper respiratory tract tissue irritation or damage, by administering a safe and effective amount of the above composition.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 6. Document ID: US 20020009478 A1

L8: Entry 6 of 10

File: PGPB

Jan 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020009478

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020009478 A1

TITLE: ORAL LIQUID MUCOADHESIVE COMPOSITIONS

PUBLICATION-DATE: January 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
DOBROZSI, DOUGLAS JOSEPH	LOVELAND	OH	US	

US-CL-CURRENT: 424/434; 424/400

ABSTRACT:

The present invention relates to a per oral, oral, or intranasal pharmaceutical mucoretentive, aqueous liquid composition comprising from about 2% to about 50%, by weight of the composition, of colloidal particles of silica, titanium dioxide, clay, and mixtures thereof and a safe and effective amount of a pharmaceutical active selected from the group consisting of analgesics, decongestants, expectorants, antitussives, antihistamines, sensory agents, gastrointestinal agents, and mixtures thereof; wherein the composition has a sedimentation volume ratio of greater than about 0.90 and wherein the triggered viscosity ratio of the composition is at least about 1.2. The present invention further relates to a method of coating the alimentary canal and nasal mucosa, in particular to a method of preventing or treating symptoms of upper respiratory tract infections or upper respiratory tract tissue irritation or damage, by administering a safe and effective amount of the above composition.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 7. Document ID: US 6391886 B1

L8: Entry 7 of 10

File: USPT

May 21, 2002

US-PAT-NO: 6391886

DOCUMENT-IDENTIFIER: US 6391886 B1

TITLE: Oral compositions having improved consumer aesthetics

DATE-ISSUED: May 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Kuo-Chung Mark	Hamilton	OH		

US-CL-CURRENT: 514/289; 514/570

ABSTRACT:

Oral compositions containing therapeutical agents wherein the undesirable consumer aesthetics associated with these agents are mitigated using coolants and sweeteners.

17 Claims, 0 Drawing figures

Exemplary Claim Number: 1.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 8. Document ID: US 6319513 B1

L8: Entry 8 of 10

File: USPT

Nov 20, 2001

US-PAT-NO: 6319513

DOCUMENT-IDENTIFIER: US 6319513 B1

TITLE: Oral liquid mucoadhesive compounds

DATE-ISSUED: November 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dobrozsi; Douglas Joseph	Loveland	OH		

US-CL-CURRENT: 424/434; 424/435

ABSTRACT:

The present invention relates to a per oral, oral, or intranasal pharmaceutical muco-retentive, aqueous liquid composition comprising from about 2% to about 50%, by weight of the composition, of colloidal particles of silica, titanium dioxide, clay, and mixtures thereof and a safe and effective amount of a pharmaceutical active selected from the group consisting of analgesics, decongestants, expectorants, antitussives, antihistamines, sensory agents, gastrointestinal agents, and mixtures thereof; wherein the composition has a sedimentation volume ratio of greater than about 0.90 and wherein the triggered viscosity ratio of the composition is at least about 1.2. The present invention further relates to a method of coating the alimentary canal or nasal mucosa, in particular to a method of preventing or treating symptoms of upper respiratory tract infections or upper respiratory tract tissue irritation or damage, by administering a safe and effective amount of the above composition.

24 Claims, 1 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full Title Citation Front Review Classification Date Reference Sequences Attachments

FWMC Draw Desc Image

☐ 9. Document ID: US 5955116 A

L8: Entry 9 of 10

File: USPT

Sep 21, 1999

US-PAT-NO: 5955116

DOCUMENT-IDENTIFIER: US 5955116 A

TITLE: Method and apparatus for production of multi-flavored and multi-colored chewing gum

DATE-ISSUED: September 21, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kehoe; Gary	Ossining	NY		
Carroll; Thomas J.	Oak Ridge	NJ		
Mihalich; Donald L.	Brooklyn	NY		

US-CL-CURRENT: 425/131.1; 425/296, 425/302.1, 425/308, 425/319, 425/391, 426/516

ABSTRACT:

Multi-veined chewing gum is produced by injecting a plurality of different liquid flavor/dye compositions into a substantially homogeneous gum base composition or into a laminated or coextruded gum composition. The injection may be performed while the gum composition is being conveyed in one or more extruder head barrels, the injection being at a plurality of radial and/or circumferential positions in the barrel. In embodiments of the invention substantially straight longitudinal veins of color are then partially mixed to partially displace the colored veins in a direction transverse to the direction of extrusion so as to create veined, multi-colored patterns substantially

throughout a cross section of the product in a manner so that the multi-colored patterns in the cross-section differ along the length of the extrudate. The extrudate is cut to obtain gum pieces having different veins of injected liquid additives which provide a swirled or marbled pattern in the opposing cut ends. The injected liquid additive compositions may include flavors, dyes, lakes, high intensity sweeteners, therapeutic agents, breath freshening agents, and mixtures thereof. Surface veins may also be produced by injection of liquid colorant/flavorant compositions onto the substantially homogeneous gum base composition as it passes through the extrusion head barrel. The surface veins may be disrupted or displaced independently of the interior veins using a rotatable sleeve or gum rope twisting device.

17 Claims, 23 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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10. Document ID: US 5626892 A

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May 6, 1997

US-PAT-NO: 5626892
DOCUMENT-IDENTIFIER: US 5626892 A

TITLE: Method for production of multi-flavored and multi-colored chewing gum

DATE-ISSUED: May 6, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kehoe; Gary	Ossining	NY		
Carroll; Thomas J.	Oak Ridge	NJ		
Mihalich; Donald L.	Brooklyn	NY		

US-CL-CURRENT: 426/3; 426/4, 426/5, 426/516, 426/6

ABSTRACT:

Multi-veined chewing gum is produced by injecting a plurality of different liquid flavor/dye compositions into a substantially homogeneous gum base composition or into a laminated or coextruded gum composition. The injection may be performed while the gum composition is being conveyed in one or more extruder head barrels, the injection being at a plurality of radial and/or circumferential positions in the barrel. In embodiments of the invention substantially straight longitudinal veins of color are then partially mixed to partially displace the colored veins in a direction transverse to the direction of extrusion so as to create veined, multi-colored patterns substantially throughout a cross section of the product in a manner so that the multi-colored patterns in the cross-section differ along the length of the extrudate. The extrudate is cut to obtain gum pieces having different veins of injected liquid additives which provide a swirled or marbled pattern in the opposing cut ends. The injected liquid additive compositions may include flavors, dyes, lakes, high intensity sweeteners, therapeutic agents, breath freshening agents, and mixtures thereof. Surface veins may also be produced by injection of liquid colorant/flavorant compositions onto the substantially homogeneous gum base composition as it passes through the extrusion head barrel. The surface veins may be disrupted or displaced independently of the interior veins using a rotatable sleeve or gum rope twisting device.

36 Claims, 23 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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